



# Purification of LSA-NRC

From Total Protein Through Ni, DEAE and SP

M-Marker  
T- total soluble protein  
N-Nickel NTA elution  
D-DEAE elution  
S- SP elution

100 g paste  
~500 mg purified LSA-NRC  
~ 10, 000 doses  
~ 10 EU/ 50 µg dose

M T N D S M

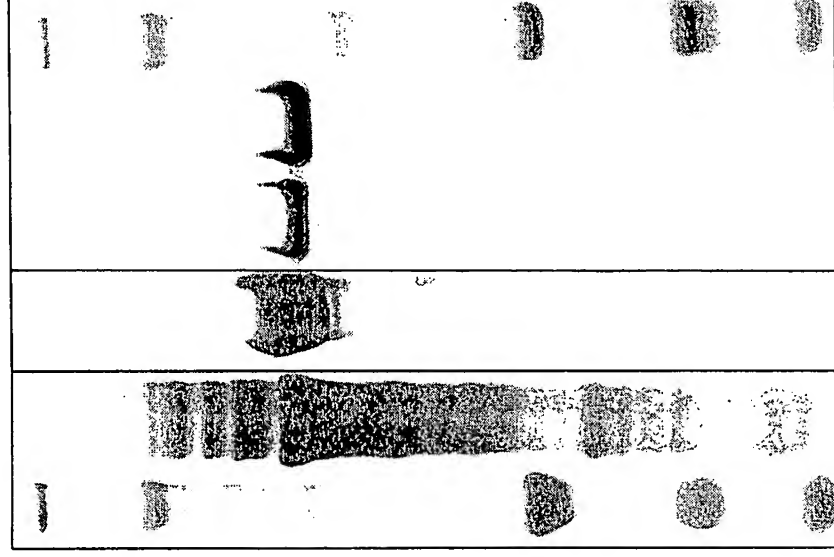
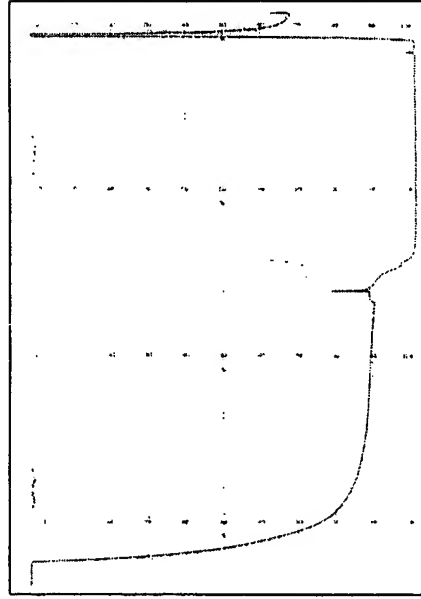


Figure 1

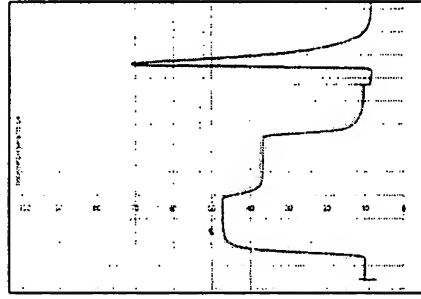


# Purification Profiles

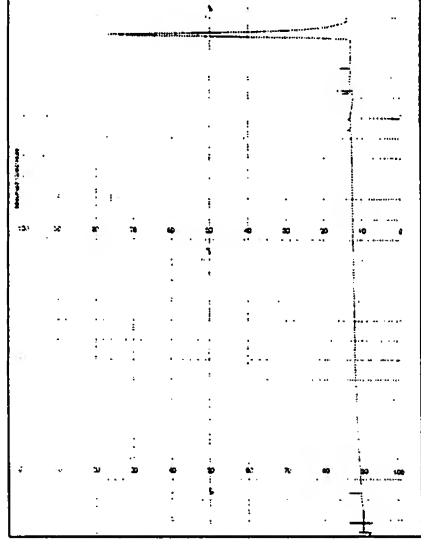
L   W1   W2   E   L   W   E   L   W   E



Nickel NTA Superflow



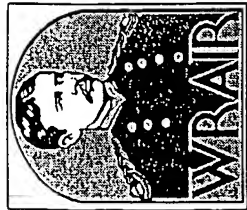
DEAE Sepharose



SP Sepharose

L- load   W- wash   E- elution

FIGURE 2



# Silver Stained LSA-NRC

Micrograms Loaded per lane

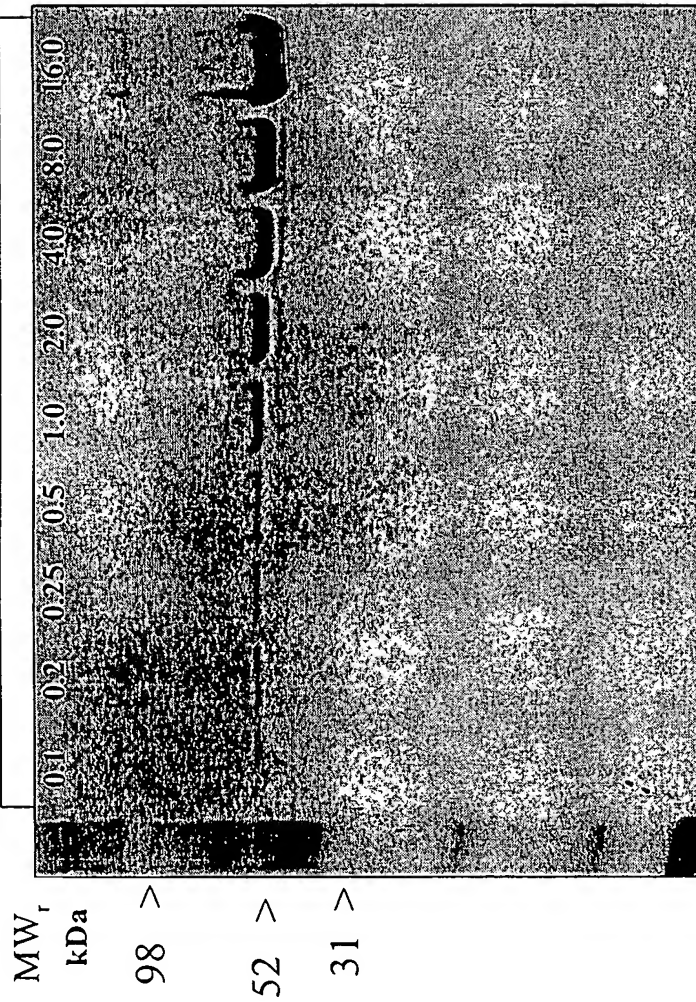


FIGURE 3

Antibody Responses In Mice Immunized with LSA-NRC<sup>MutR</sup>

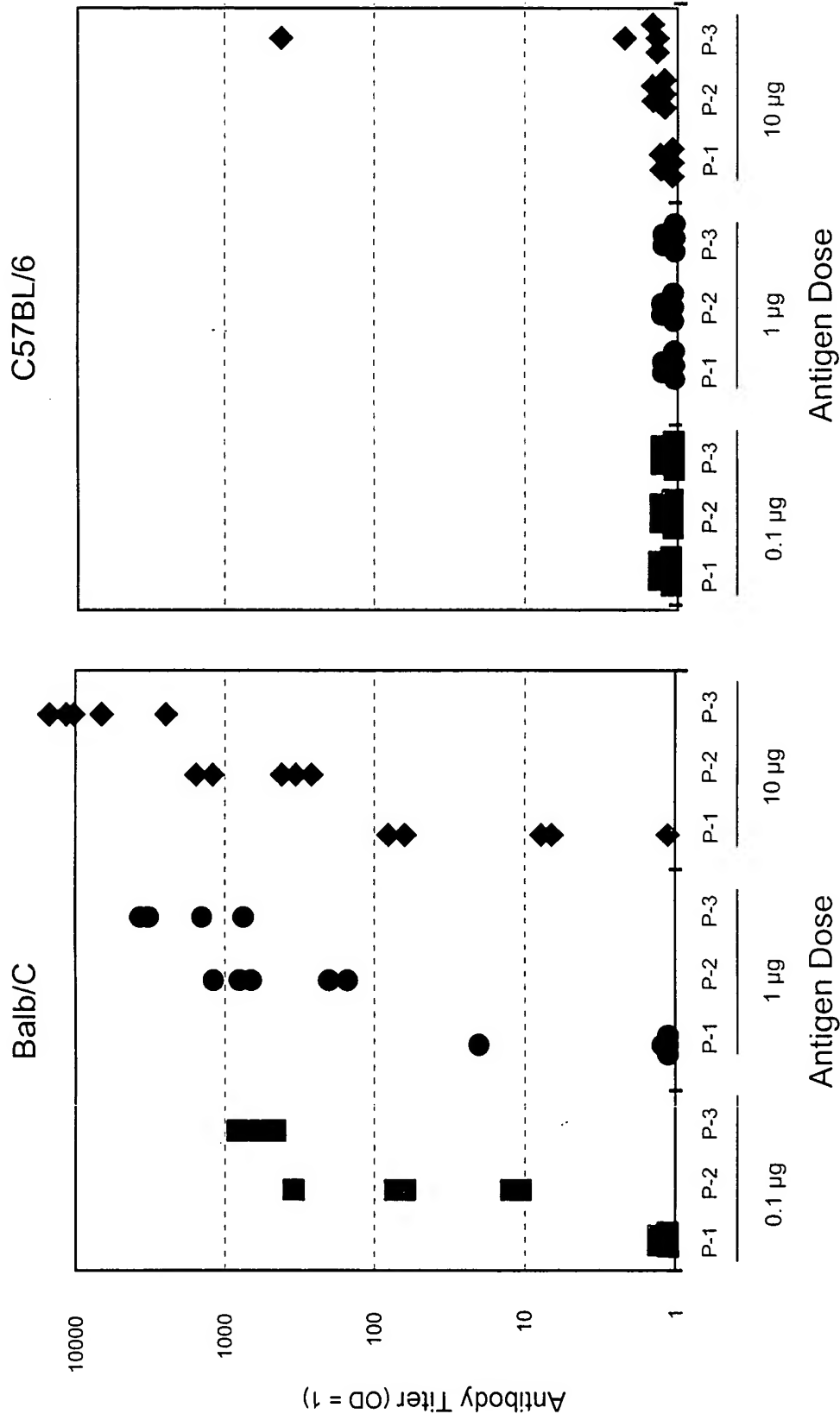


FIGURE 4

Montanide ISA 720, S.C. Route

IgG subclasses in Balb/C Mice Immunized with LSA-NRC<sup>MutR</sup>  
(pooled sera)

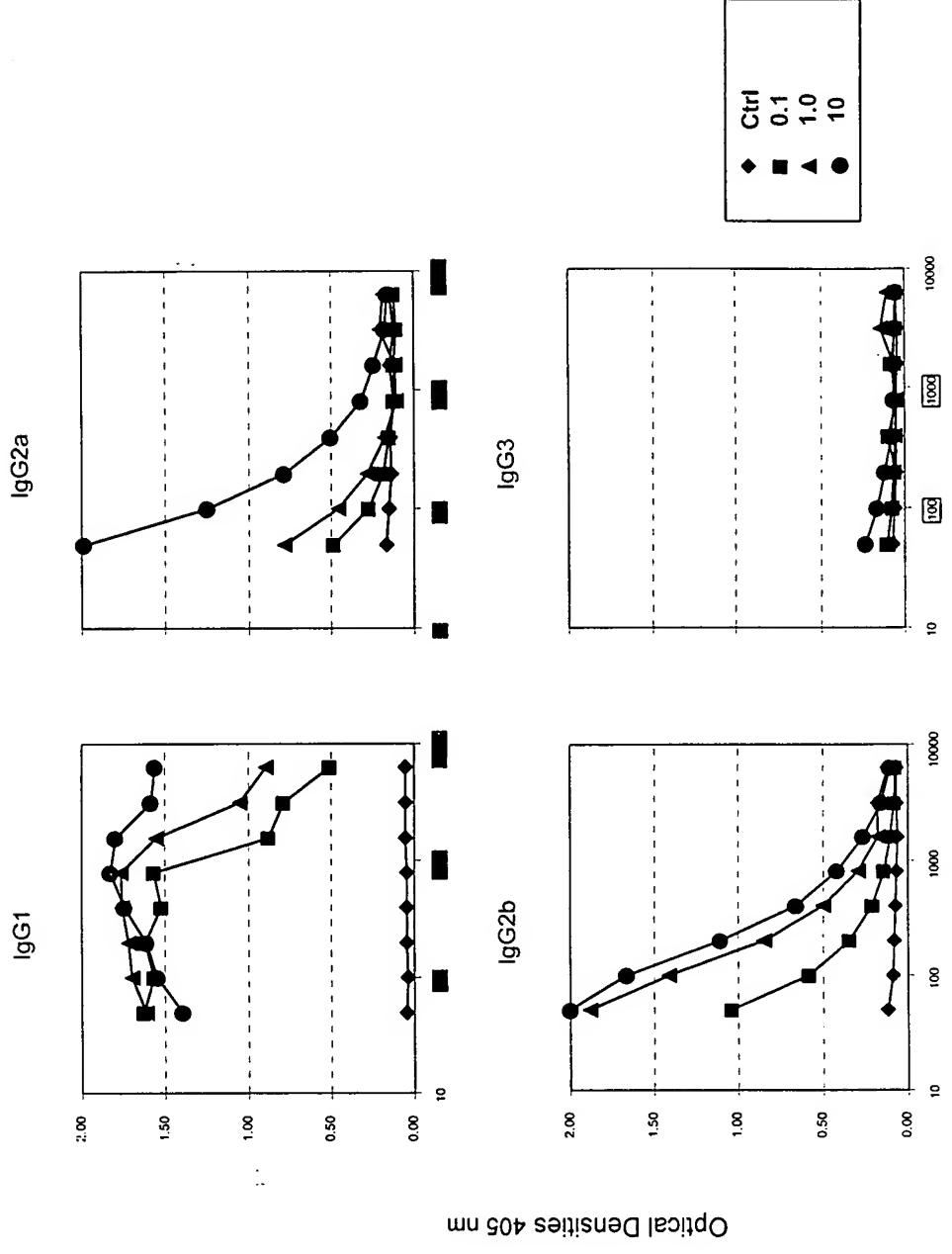


FIGURE 5

# IFN- $\gamma$ Production in C57BL/6 Mice Immunized with LSA-NRC<sup>MutR</sup>

IFN- $\gamma$  ELISPOT Assay in C57BL/6 mice

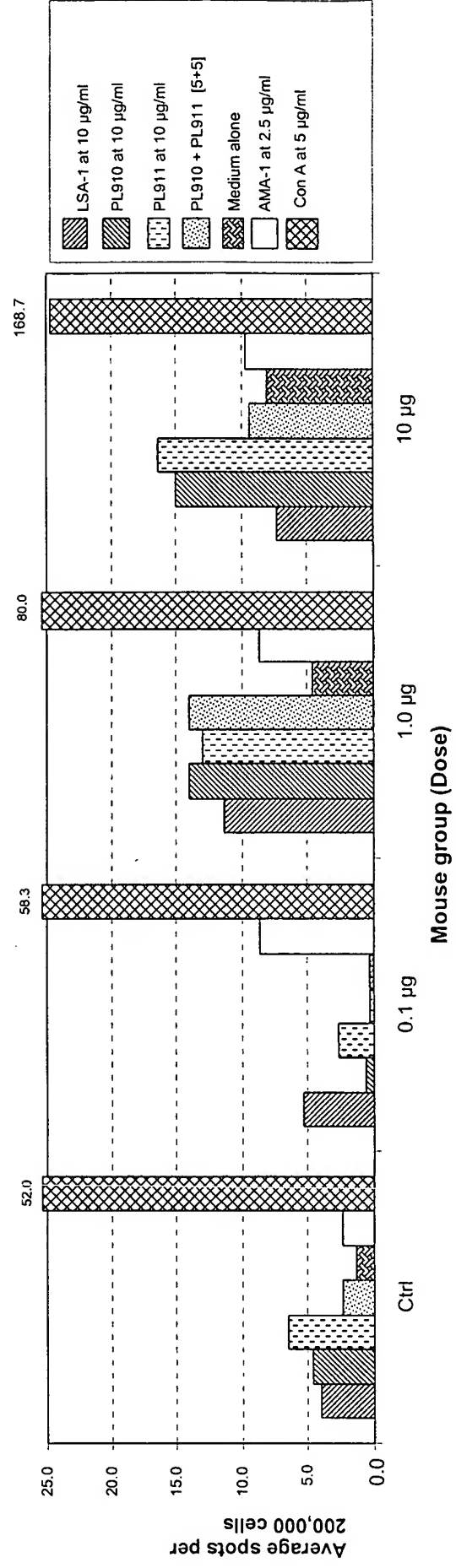


FIGURE 6

# LSA-NRC<sup>MutR</sup> Antibody Responses in Rabbits

- Three animals Immunized with 100 µg LSA-NRC<sup>MutR</sup>, boosting with 50 µg
- Route S.C. , Montanide ISA 720 adjuvant.
- Antibody Titers (Post-2, OD=1): 4456, 18668, 63856

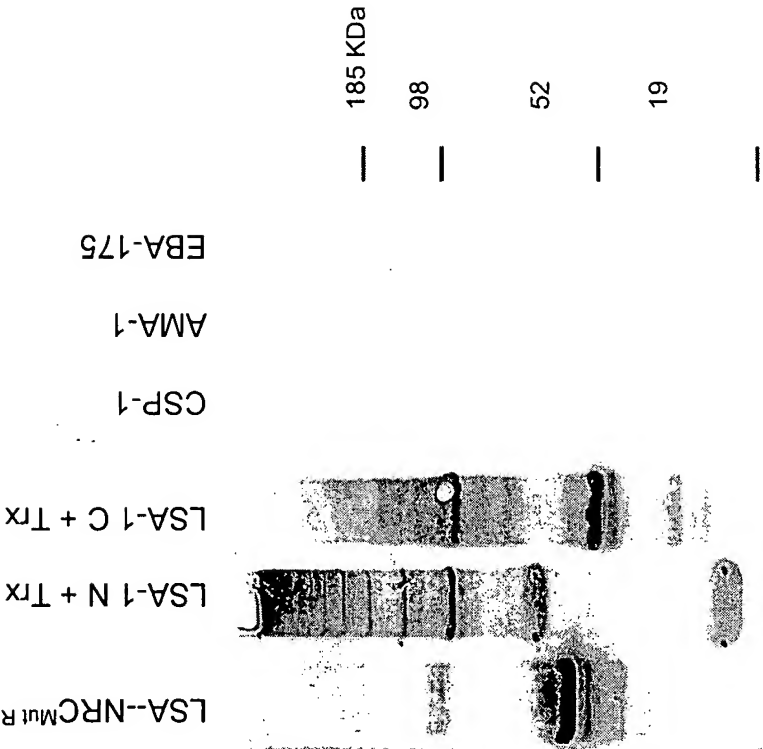
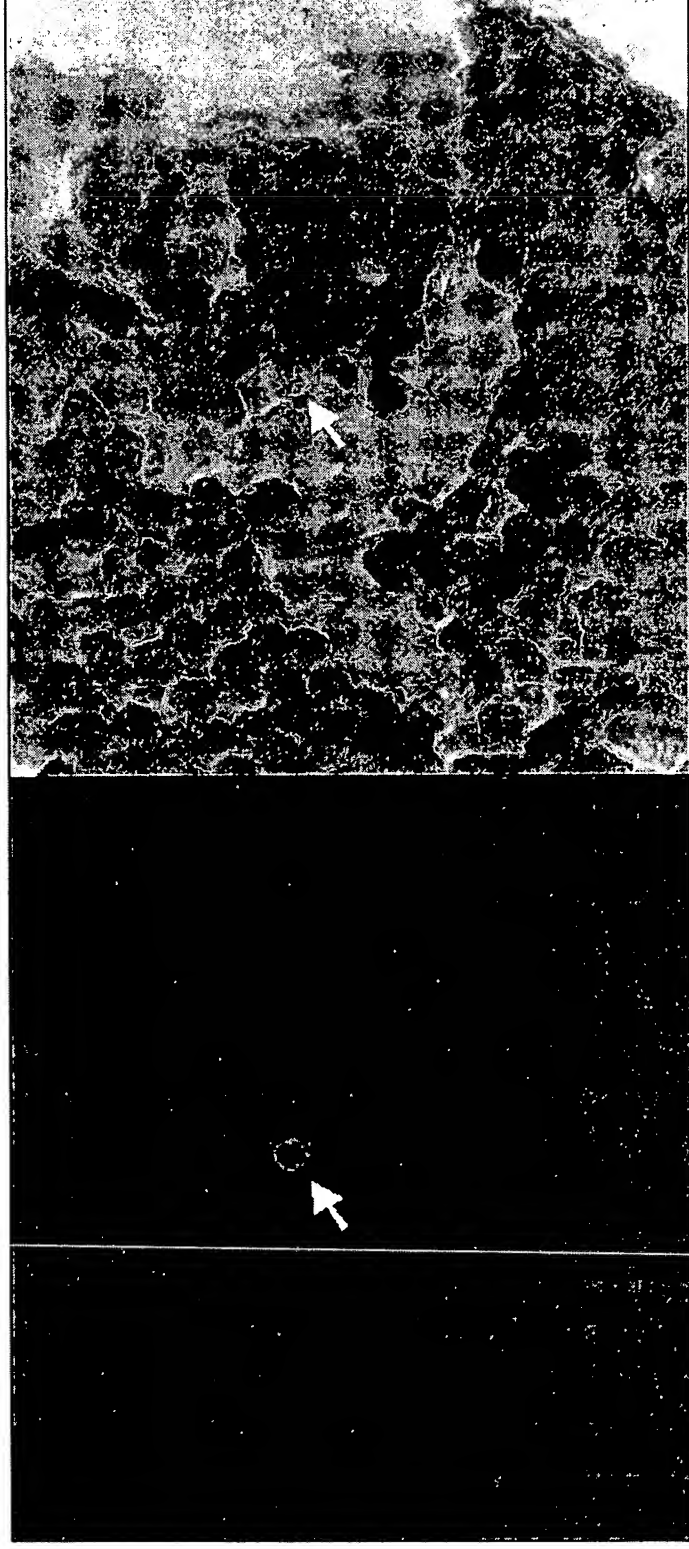


FIGURE 7

## Recognition of *P. falciparum*-infected Hepatocytes

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HC04 cells, 7-8 days post-infection with NF54 *P. falciparum*, Immune rabbit serum at 1:200

FIGURE 8



# Recognition of LSA-NRC<sup>MutR</sup> by Pool of Kenyan Serum by Western Blot

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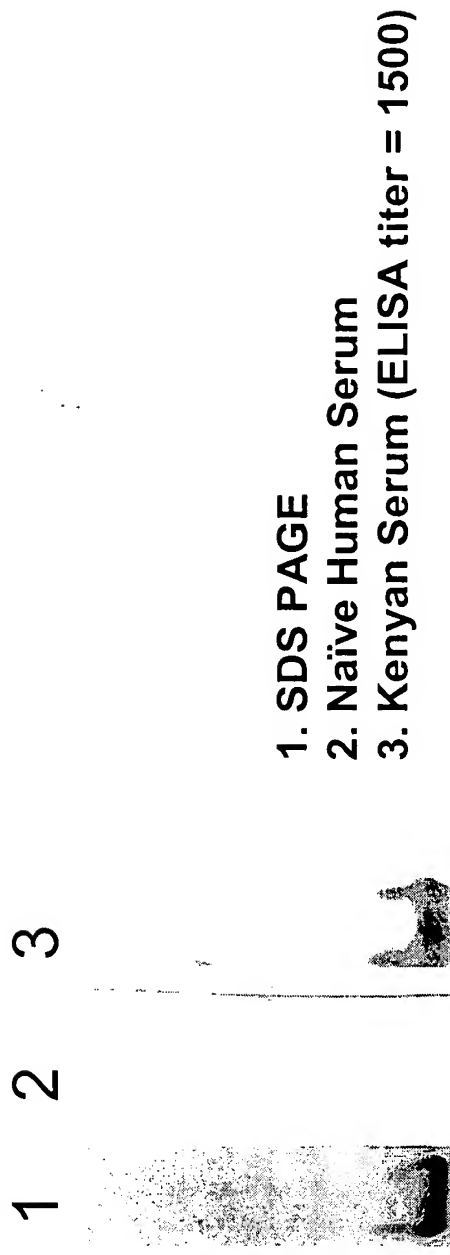


FIGURE 9